

ELECTRODE CONFIGURATION FOR
ELECTROHYDRODYNAMIC INDUCTION PUMP

ABSTRACT OF THE DISCLOSURE

An electrode configuration for use in association with a heat transfer member provided in a thermal energy transfer system. Separate multiple electrical conductors are each received on a respective first surface alteration. Each of the multiple conductors is connected to a different terminal of a multiphase alternating power source so that an electric traveling wave moves in a longitudinal direction of the heat transfer member so as to induce pumping of at least the liquid phase in the longitudinal direction to thereby enhance the thermal energy transfer characteristics of the thermal energy transfer system. In a preferred embodiment, the aforementioned heat transfer members are provided inside of an outer conduit.

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